	Application No. Applicant(s)		
Notice of Allowability	09/964,655	SUGIMOTO, KEIICHI	E
	Examiner	Art Unit	
	Trang U. Tran	2614	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i) or other appropriate comm RIGHTS. This application is	in this application. If not included nunication will be mailed in due cours	e. THIS ne initiative
1. \boxtimes This communication is responsive to <u>the preliminary ame</u>	ndment (A) filed on Septem	<u>ber 28, 2001</u> .	
2. The allowed claim(s) is/are <u>1-14</u> .			
3. \boxtimes The drawings filed on <u>28 September 2001</u> are accepted by	by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Copies of the certified copies of the priority documents have 2. Certified copies of the certified copies of the priority documents have 3. Certified copies of the certified copies of the priority documents have 3. Certified copies of the certified copies of the priority documents have 3. Certified copies of the certified copies of the priority documents have 3. Certified copies of the certified copies of the priority documents have 3. Certified copies have 3. Certified	ve been received. ve been received in Applicat	ion No	om the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to fi MENT of this application.	e a reply complying with the requiren	nents
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi			E OF
6. CORRECTED DRAWINGS (as "replacement sheets") m	ust be submitted.		
(a) \square including changes required by the Notice of Draftspe		w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment (or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 C	the drawings in the front (not the back FR 1.121(d).) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT			he
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 09/28/01, 06/29/04) 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview Paper No 1/08), 7. Examiner	nformal Patent Application (PTO-152 Summary (PTO-413), J./Mail Date s Amendment/Comment s Statement of Reasons for Allowand	
		<i>7</i>	

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The present invention is directed to an image binarization method. Each independent claim identifies the uniquely distinct features: "as a first processing, multidigitized luminance data obtained by digitally converted video signals from an imaging device for each pixel on each horizontal scanning line is stored in an even-numbered row horizontal line memory if the current horizontal scanning line is an even-numbered row, and is stored in an odd-numbered row horizontal line memory if the horizontal scanning line is an odd-numbered row, and in said multi-digitized luminance data on the current scanning liner detected maximum value MAXi and minimum value MINi exceeding predetermined displacement level, and addresses MAXPi and MINPj at the detected pixel positions are stored in an even-numbered detection memory the current horizontal scanning an even-numbered row, or in an odd-numbered row detection memory if the current horizontal scanning line odd-numbered row; and as a second processing, reading-out is carried out from the even-numbered detection memory if the current horizontal scanning line is an odd-numbered row, or from the odd-numbered detection memory if the current horizontal scanning an even-numbered based floating thresholds FTh=MINj+(MAXi-MINj) x K (herein, K is an emphasis coefficient between 0 and 1, and h, and j are integers starting from zero) for each section Xh of the horizontal pixel address row set by means of operation, the multi-digitized data read out from the even-numbered horizontal line memory in the case of the odd-numbered row or the odd-numbered horizontal line memory in the case of the even-numbered row is

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converted into binary data". The closest prior art, Tateno et al. (US Patent No. 5,937,146) disclose binarization processing apparatus and method and Herrmann (US Patent No. 5,121,207) discloses digital circuit arrangement for processing an analog video signal at a free running system clock, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (703) 305-0090. The examiner can normally be reached on 8:00 AM - 5:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on (703) 305-4795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JOHN MILLER

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600